

Title (en)

HYDROGEN GENERATION FROM WATER SPLIT REACTION

Title (de)

ERZEUGUNG VON WASSERSTOFF MITTELS WASSERSPALTUNGSREAKTION

Title (fr)

PRODUCTION D'HYDROGENE PAR REACTION DE DECOMPOSITION DE L'EAU

Publication

EP 1311456 A2 20030521 (EN)

Application

EP 01957659 A 20010801

Priority

- CA 0101115 W 20010801
- US 63793000 A 20000814
- US 77809101 A 20010207

Abstract (en)

[origin: WO0214213A2] A method of producing Hydrogen by reacting a metal selected from the group consisting of Aluminum (Al), Magnesium (Mg), Silicon (Si) and Zinc (Zn) with water in the presence of an effective amount of a catalyst at a pH of between 4 and 10 to produce Hydrogen. The catalyst or other additive is selected to prevent or slow down deposition of the reaction products on the (impair reactions with the) metal that tend to passivate the metal and thereby facilitates the production of said Hydrogen.

IPC 1-7

C01B 3/08

IPC 8 full level

C01B 3/08 (2006.01)

CPC (source: EP US)

C01B 3/08 (2013.01 - EP US); **Y02E 60/36** (2013.01 - EP US)

Citation (search report)

See references of WO 0214213A2

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)

WO 0214213 A2 20020221; **WO 0214213 A3 20020411**; AU 7952301 A 20020225; CA 2418823 A1 20020221; CA 2418823 C 20051011; CN 1272236 C 20060830; CN 1469841 A 20040121; EP 1311456 A2 20030521; HK 1062288 A1 20041029; JP 2004505879 A 20040226; US 2002048548 A1 20020425; US 6582676 B2 20030624

DOCDB simple family (application)

CA 0101115 W 20010801; AU 7952301 A 20010801; CA 2418823 A 20010801; CN 01817285 A 20010801; EP 01957659 A 20010801; HK 04105269 A 20040719; JP 2002519317 A 20010801; US 77809101 A 20010207